Brain Research, 453 (1988) 408–410
Elsevier

Author Index

Ahmad, S.N. and Miljanich, G.P., The calcium channel antagonist, ω-conotoxin, and electric organ nerve terminals: binding and inhibition of transmitter release and calcium influx, 247
Alonso, G., Effects of colchicine on the intraneuronal transport of secretory material prior to the axon: a morphofunctional study in hypothalamic neurosecretory neurons of the rat, 191

Bain, J.L.W., see Riley, D.A., 79
Bankiewicz, K.S., see Palombo, E., 227
Barnes, C.D., D'Ascanio, P., Pompeiano, O. and Stampacchia, G., Cholinergic brainstem sites for gain control of vestibulospinal reflexes in cats, 32
Baxendale, R.H., Ferrell, W.R. and Wood, L., Responses of quadriceps motor units to mechanical stimulation of knee joint receptors in the decerebrate cat, 150
Behbehani, M.M., see Zemlan, F.P., 89
Benoit, R., see Mufson, E.J., 117
Benyamina, M., see Leboulenger, F., 103
Björklund, A., see Nilsson, O.G., 235
Black, J.A., see Waxman, S.G., 337
Blue, M.E., Yagaloff, K.A., Mamounas, L.A., Hartig, P.R. and Molliver, M.E., Correspondence between 5-HT_2 receptors and serotonergic axons in rat neocortex, 315
Bolwig, T.G., see Clemmesen, L., 204
Bondy, C.A. and Russell, J.T., Dendrotoxin and 4-aminopyridine potentiate neurohypophysial hormone secretion during low frequency electrical stimulation, 397
Bragdon, A.C., Taylor, D.M., McNamara, J.O. and Wilson, W.A., Abnormal hyperexcitability of hippocampal slices from kindled rats is transient, 257
Brücke, T., see Singhaniyom, W., 393

Chiu, T.H., see Tyma, J.L., 344
Chiueh, C.C., see Singhaniyom, W., 393
Clemmesen, L., Ingvar, M., Hemmingsen, R. and Bolwig, T.G., Local cerebral glucose consumption during ethanol withdrawal in the rat: effects of single and multiple episodes and previous convulsive seizures, 204
Cohen, R., see Singhaniyom, W., 393
Collins, A.C., see Freund, R.K., 215
Crane, A.M., see Palombo, E., 227

Dam, T.-V., Escher, E. and Quirion, R., Evidence for the existence of three classes of neurokinin receptors in brain. Differential ontogeny of neurokinin-1, neurokinin-2 and neurokinin-3 binding sites in rat cerebral cortex, 372
D'Ascanio, P., see Barnes, C.D., 32
Daszuta, A., see Nilsson, O.G., 235
Delarue, C., see Leboulenger, F., 103
Delius, J.D., see Lindenblatt, U., 1
Desmond, N.L. and Levy, W.B., Synaptic interface surface area increases with long-term potentiation in the hippocampal dentate gyrus, 308
Djuricic, B., see Paschen, W., 9
Duckworth, J.W., see Lambert, G.A., 143

Edström, A., see Sjöberg, J., 221
Emadian, S.M., see Luttge, W.G., 41
Escher, E., see Dam, T.-V., 372
Estrada, C., Triguero, D., Muñoz, J. and Sureda, A., Acetylcholinesterase-containing fibers and choline acetyltransferase activity in isolated cerebral microvessels from goats, 275

Fairchild, M.D., Parsons, J.E., Wasterlain, C.G., Rinaldi, P.C. and Wallis, R.A., A hypoxic injury potential in the hippocampal slice, 357
Feldman, S., see Saphier, D., 183
Ferrell, W.R., see Baxendale, R.H., 150
Forsythe, I.D., see Tracey, D.J., 129
Freund, R.K., Jungschaffer, D.A., Collins, A.C. and Wehner, J.M., Evidence for modulation of GABAergic neurotransmission by nicotine, 215
Fricker, L.D. and Herbert, E., Comparison of a carboxypeptidase E-like enzyme in human, bovine, mouse, *Xenopus*, shark and *Aplysia* neural tissue, 281

Goadsby, P.J., see Lambert, G.A., 143
Gómez-Pinilla, F., see Villablanca, J.R., 17

Hartig, P.R., see Blue, M.E., 315
Haselton, C.L., see Haselton, J.R., 167
Haselton, C.L., see Haselton, J.R., 176
Haselton, J.R., Winters, R.W., Liskowsky, D.R., Haselton, C.L., McCabe, P.M. and Schneiderman, N., Cardiovascular responses elicited by electrical and chemical stimulaton of the rostral medullary raphe of the rabbit, 167
Haselton, J.R., Winters, R.W., Liskowsky, D.R., Haselton, C.L., McCabe, P.M. and Schneiderman, N., Anatomical and functional connections of neurons of the rostral medullary raphe of the rabbit, 176
Hayaishi, O., see Naito, K., 329
Hemmingsen, R., see Clemmesen, L., 204
Herbert, E., see Fricker, L.D., 281
Hildebrand, C., Oscarsson, A. and Risling, M., Fibre composition of the feline trochlear and abducens nerves, 401
Hollyfield, J.G., see Wiechmann, A.F., 377
Hondo, K., see Naito, K., 329
Hovda, D.A., see Villblanca, J.R., 17

Ingvar, M., see Clemmesen, L., 204
Inoué, S., see Naito, K., 329
Ishida-Yamamoto, A., Senba, E. and Tohyama, M., Calcitonin gene-related peptide- and substance P-immunoreactive nerve fibers in Meissner's corpuscles of rats: an immunohistochemical analysis, 362

Jacobowitz, D.M., see Sills, M.A., 385
Janigro, D. and Schwartzkroin, P.A., Effects of GABA on CA3 pyramidal cell dendrites in rabbit hippocampal slices, 265
Jungschaffer, D.A., see Freund, R.K., 215

Kanje, M., see Sjöberg, J., 221

Brain Research, 453 (1988) 408–410
Elsevier

Author Index

Ahmad, S.N. and Miljanich, G.P., The calcium channel antagonist, ω-conotoxin, and electric organ nerve terminals: binding and inhibition of transmitter release and calcium influx, 247
Alonso, G., Effects of colchicine on the intraneuronal transport of secretory material prior to the axon: a morphofunctional study in hypothalamic neurosecretory neurons of the rat, 191

Bain, J.L.W., see Riley, D.A., 79
Bankiewicz, K.S., see Palombo, E., 227
Barnes, C.D., D'Ascanio, P., Pompeiano, O. and Stampacchia, G., Cholinergic brainstem sites for gain control of vestibulospinal reflexes in cats, 32
Baxendale, R.H., Ferrell, W.R. and Wood, L., Responses of quadriceps motor units to mechanical stimulation of knee joint receptors in the decerebrate cat, 150
Behbehani, M.M., see Zemlan, F.P., 89
Benoit, R., see Mufson, E.J., 117
Benyamina, M., see Leboulenger, F., 103
Björklund, A., see Nilsson, O.G., 235
Black, J.A., see Waxman, S.G., 337
Blue, M.E., Yagaloff, K.A., Mamounas, L.A., Hartig, P.R. and Molliver, M.E., Correspondence between 5-HT_2 receptors and serotonergic axons in rat neocortex, 315
Bolwig, T.G., see Clemmesen, L., 204
Bondy, C.A. and Russell, J.T., Dendrotoxin and 4-aminopyridine potentiate neurohypophysial hormone secretion during low frequency electrical stimulation, 397
Bragdon, A.C., Taylor, D.M., McNamara, J.O. and Wilson, W.A., Abnormal hyperexcitability of hippocampal slices from kindled rats is transient, 257
Brücke, T., see Singhaniyom, W., 393

Chiu, T.H., see Tyma, J.L., 344
Chiueh, C.C., see Singhaniyom, W., 393
Clemmesen, L., Ingvar, M., Hemmingsen, R. and Bolwig, T.G., Local cerebral glucose consumption during ethanol withdrawal in the rat: effects of single and multiple episodes and previous convulsive seizures, 204
Cohen, R., see Singhaniyom, W., 393
Collins, A.C., see Freund, R.K., 215
Crane, A.M., see Palombo, E., 227

Dam, T.-V., Escher, E. and Quirion, R., Evidence for the existence of three classes of neurokinin receptors in brain. Differential ontogeny of neurokinin-1, neurokinin-2 and neurokinin-3 binding sites in rat cerebral cortex, 372
D'Ascanio, P., see Barnes, C.D., 32
Daszuta, A., see Nilsson, O.G., 235
Delarue, C., see Leboulenger, F., 103
Delius, J.D., see Lindenblatt, U., 1
Desmond, N.L. and Levy, W.B., Synaptic interface surface area increases with long-term potentiation in the hippocampal dentate gyrus, 308
Djuricic, B., see Paschen, W., 9
Duckworth, J.W., see Lambert, G.A., 143

Edström, A., see Sjöberg, J., 221
Emadian, S.M., see Luttge, W.G., 41
Escher, E., see Dam, T.-V., 372
Estrada, C., Triguero, D., Muñoz, J. and Sureda, A., Acetylcholinesterase-containing fibers and choline acetyltransferase activity in isolated cerebral microvessels from goats, 275

Fairchild, M.D., Parsons, J.E., Wasterlain, C.G., Rinaldi, P.C. and Wallis, R.A., A hypoxic injury potential in the hippocampal slice, 357
Feldman, S., see Saphier, D., 183
Ferrell, W.R., see Baxendale, R.H., 150
Forsythe, I.D., see Tracey, D.J., 129
Freund, R.K., Jungschaffer, D.A., Collins, A.C. and Wehner, J.M., Evidence for modulation of GABAergic neurotransmission by nicotine, 215
Fricker, L.D. and Herbert, E., Comparison of a carboxypeptidase E-like enzyme in human, bovine, mouse, *Xenopus*, shark and *Aplysia* neural tissue, 281

Goadsby, P.J., see Lambert, G.A., 143
Gómez-Pinilla, F., see Villablanca, J.R., 17

Hartig, P.R., see Blue, M.E., 315
Haselton, C.L., see Haselton, J.R., 167
Haselton, C.L., see Haselton, J.R., 176
Haselton, J.R., Winters, R.W., Liskowsky, D.R., Haselton, C.L., McCabe, P.M. and Schneiderman, N., Cardiovascular responses elicited by electrical and chemical stimulaton of the rostral medullary raphe of the rabbit, 167
Haselton, J.R., Winters, R.W., Liskowsky, D.R., Haselton, C.L., McCabe, P.M. and Schneiderman, N., Anatomical and functional connections of neurons of the rostral medullary raphe of the rabbit, 176
Hayaishi, O., see Naito, K., 329
Hemmingsen, R., see Clemmesen, L., 204
Herbert, E., see Fricker, L.D., 281
Hildebrand, C., Oscarsson, A. and Risling, M., Fibre composition of the feline trochlear and abducens nerves, 401
Hollyfield, J.G., see Wiechmann, A.F., 377
Hondo, K., see Naito, K., 329
Hovda, D.A., see Villblanca, J.R., 17

Ingvar, M., see Clemmesen, L., 204
Inoué, S., see Naito, K., 329
Ishida-Yamamoto, A., Senba, E. and Tohyama, M., Calcitonin gene-related peptide- and substance P-immunoreactive nerve fibers in Meissner's corpuscles of rats: an immunohistochemical analysis, 362

Jacobowitz, D.M., see Sills, M.A., 385
Janigro, D. and Schwartzkroin, P.A., Effects of GABA on CA3 pyramidal cell dendrites in rabbit hippocampal slices, 265
Jungschaffer, D.A., see Freund, R.K., 215

Kanje, M., see Sjöberg, J., 221

Kaufman, H., Vadasz, C. and Lajtha, A., Effects of estradiol and dexamethasone on choline acetyltransferase activity in various rat brain regions, 389
Kopin, I.J., see Palombo, E., 227
Kung, H.F., see Singhaniyom, W., 393

LaHoste, G.J., Mormède, P., Rivet, J.-M. and Le Moal, M., Differential sensitization to amphetamine and stress responsivity as a function of inherent laterality, 381
Lajtha, A., see Kaufman, H., 389
Lambert, G.A., Goadsby, P.J., Zagami, A.S. and Duckworth, J.W., Comparative effects of stimulation of the trigeminal ganglion and the superior sagittal sinus on cerebral blood flow and evoked potentials in the cat, 143
Leboulenger, F., Benyamina, M., Delarue, C., Netchitaïlo, P., Saint-Pierre, S. and Vaudry, H., Neuronal and paracrine regulation of adrenal steroidogenesis: interactions between acetylcholine, serotonin and vasoactive intestinal peptide (VIP) on corticosteroid production by frog interrenal tissue, 103
Le Moal, M., see LaHoste, G.J., 381
Levin, B.E., see Wilmot, C.A., 157
Levy, W.B., see Desmond, N.L., 308
Lindenblatt, U. and Delius, J.D., Nucleus basalis prosencephali, a substrate of apomorphine-induced pecking in pigeons, 1
Liskowsky, D.R., see Haselton, J.R., 167
Liskowsky, D.R., see Haselton, J.R., 176
Luttge, W.G. and Emadian, S.M., Further chemical differentiation of Type I and Type II adrenocorticosteroid receptors in mouse brain cytosol: evidence for a new class of glucocorticoid receptors, 41

Mamounas, L.A., see Blue, M.E., 315
Matloub, H.S., see Riley, D.A., 79
McCabe, P.M., see Haselton, J.R., 167
McCabe, P.M., see Haselton, J.R., 176
McLellan, C., see Singhaniyom, W., 393
McNamara, J.O., see Bragdon, A.C., 257
Meese, C.O., see Paschen, W., 9
Mellow, A.M., see Sills, M.A., 385
Mesulam, M.M., see Mufson, E.J., 117
Miljanich, G.P., see Ahmad, S.N., 247
Molliver, M.E., see Blue, M.E., 315
Moore, G.H., see Riley, D.A., 79
Mormède, P., see LaHoste, G.J., 381
Mufson, E.J., Benoit, R. and Mesulam, M.M., Immunohistochemical evidence for a possible somatostatin-containing amygdalostriatal pathway in normal and Alzheimer's disease brain, 117
Mullen, D.A., see Zatz, M., 51
Mullen, D.A., see Zatz, M., 63
Muñoz, J., see Estrada, C., 275

Naito, K., Osama, H., Hayaishi, O., Hondo, K. and Inoué, S., Suppression of sleep by prostaglandin synthesis inhibitors in unrestrained rats, 329
Netchitaïlo, P., see Leboulenger, F., 103
Nilsson, O.G., Strecker, R.E., Daszuta, A. and Björklund, A., Combined cholinergic and serotonergic denervation of the forebrain produces severe deficits in a spatial learning task in the rat, 235

Ogawa, N., see Ujike, H., 136
Osama, H., see Naito, K., 329
Oscarsson, A., see Hildebrand, C., 401
Otsuki, S., see Ujike, H., 136

Packan, D.R., see Sapolsky, R.M., 367
Palombo, E., Porrino, L.J., Bankiewicz, K.S., Crane, A.M., Kopin, I.J. and Sokoloff, L., Administration of MPTP acutely increases glucose utilization in the substantia nigra of primates, 227
Parent, A., see Smith, Y., 353
Parsons, J.E., see Fairchild, M.D., 357
Paschen, W., Röhn, G., Meese, C.O., Djuricic, B. and Schmidt-Kastner, R., Polyamine metabolism in reversible cerebral ischemia: effect of α-difluoromethylornithine, 9
Pinard, E., see Puiroud, S., 287
Pompeiano, O., see Barnes, C.D., 32
Porrino, L.J., see Palombo, E., 227
Puiroud, S., Pinard, E. and Seylaz, J., Dynamic cerebral and systemic circulatory effects of adenosine, theophylline and dipyridamole, 287

Quirion, R., see Dam, T.-V., 372

Read, D.J.C., see Scheibner, T., 72
Riley, D.A., Sanger, J.R., Matloub, H.S., Yousif, N.J., Bain, J.L.W. and Moore, G.H., Identifying motor and sensory myelinated axons in rabbit peripheral nerves by histochemical staining for carbonic anhydrase and cholinesterase activities, 79
Rinaldi, P.C., see Fairchild, M.D., 357
Risling, M., see Hildebrand, C., 401
Rivet, J.-M., see LaHoste, G.J., 381
Rodrigues, V., Spatial coding of olfactory informaton in the antennal lobe of *Drosophila melanogaster*, 299
Röhn, G., see Paschen, W., 9
Rosenberg, H.C., see Tyma, J.L., 344
Russell, J.T., see Bondy, C.A., 397

Saint-Pierre, S., see Leboulenger, F., 103
Sanger, J.R., see Riley, D.A., 79
Saphier, D. and Feldman, S., Iontophoretic application of glucocorticoids inhibits identified neurones in the rat paraventricular nucleus, 183
Sapolsky, R.M., Packan, D.R. and Vale, W.W., Glucocorticoid toxicity in the hippocampus: in vitro demonstration, 367
Scheibner, T., Read, D.J.C. and Sullivan, C.E., Distribution of substance P-immunoreactive structures in the developing cat carotid body, 72
Schmidt-Kastner, R., see Paschen, W., 9
Schneiderman, N., see Haselton, J.R., 167
Schneiderman, N., see Haselton, J.R., 176
Schwartzkroin, P.A., see Janigro, D., 265
Senba, E., see Ishida-Yamamoto, A., 362
Senba, E., Yanaihara, C., Yanaihara, N. and Tohyama, M., Co-localization of substance P and Met-enkephalin-Arg^6-Gly^7-Leu^8 in the intraspinal neurons of the rat, with special reference to the neurons in the substantia gelatinosa, 110
Seylaz, J., see Puiroud, S., 287
Shannon, S.L., see Wong, D., 349
Sills, M.A., Mellow, A.M., Sunderland, T. and Jacobowitz, D.M., Central muscarinic cholinergic antagonists block wet-dog shakes produced by the TRH analog MK-771 in the rat, 385
Singhaniyom, W., Tsai, Y.F., Brücke, T., McLellan, C., Co-

hen, R., Kung, H.F. and Chiueh, C.C., Blockade of in vivo binding of ^{125}I-labeled 3-iodobenzamide (IBZM) to dopamine receptors by D_2 antagonist and agonist, 393
Sjöberg, J., Kanje, M. and Edström, A., Influence of non-neuronal cells on regeneration of the rat sciatic nerve, 221
Smith, Y. and Parent, A., Neurons of the subthalamic nucleus in primates display glutamate but not GABA immunoreactivity, 353
Sokoloff, L., see Palombo, E., 227
Sonnier, B.J., see Villablanca, J.R., 17
Stampacchia, G., see Barnes, C.D., 32
Strecker, R.E., see Nilsson, O.G., 235
Sullivan, A.C., see Wilmot, C.A., 157
Sullivan, C.E., see Scheibner, T., 72
Sunderland, T., see Sills, M.A., 385
Sureda, A., see Estrada, C., 275

Taylor, D.M., see Bragdon, A.C., 257
Tietz, E.I., see Tyma, J.L., 344
Tohyama, M., see Ishida-Yamamoto, A., 362
Tohyama, M., see Senba, E., 110
Tracey, D.J., Walmsley, B. and Forsythe, I.D., Spinocerebellar neurones in the guinea pig — a morphological study, 129
Triguero, D., see Estrada, C., 275
Tsai, Y.F., see Singhaniyom, W., 393
Tyma, J.L., Rosenberg, H.C., Tietz, E.I. and Chiu, T.H., Effects of chronic flurazepam treatment on firing rate of rat substantia nigra pars reticulata neurons, 344

Ujike, H., Ogawa, N. and Otsuki, S., Effects of acute and long-term treatment with methamphetamine on substance P concentration and receptor numbers in the rat brain, 136

Vadasz, C., see Kaufman, H., 389
Vale, W.W., see Sapolsky, R.M., 367
Vaudry, H., see Leboulenger, F., 103
Villablanca, J.R., Gómez-Pinilla, F., Sonnier, B.J. and Hovda, D.A., Bilateral pericruciate cortical innervation of the red nucleus in cats with adult or neonatal cerebral hemispherectomy, 17

Wallis, R.A., see Fairchild, M.D., 357
Walmsley, B., see Tracey, D.J., 129
Wasterlain, C.G., see Fairchild, M.D., 357
Waxman, S.G. and Black, J.A., Unmyelinated and myelinated axon membrane from rat corpus callosum: differences in macromolecular structure, 337
Wehner, J.M., see Freund, R.K., 215
Wiechmann, A.F., Yang, X.-L., Wu, S.M. and Hollyfield, J.G., Melatonin enhances horizontal cell sensitivity in salamander retina, 377
Wilmot, C.A., Sullivan, A.C. and Levin, B.E., Effects of diet and obesity on brain α_1- and α_2-noradrenergic receptors in the rat, 157
Wilson, W.A., see Bragdon, A.C., 257
Winters, R.W., see Haselton, J.R., 167
Winters, R.W., see Haselton, J.R., 176
Wong, D. and Shannon, S.L., Functional zones in the auditory cortex of the echolocating bat, *Myotis lucifugus*, 349
Wood, L., see Baxendale, R.H., 150
Wu, S.M., see Wiechmann, A.F., 377

Yagaloff, K.A., see Blue, M.E., 315
Yanaihara, C., see Senba, E., 110
Yanaihara, N., see Senba, E., 110
Yang, X.-L., see Wiechmann, A.F., 377
Yousif, N.J., see Riley, D.A., 79

Zagami, A.S., see Lambert, G.A., 143
Zatz, M. and Mullen, D.A., Photoendocrine transduction in cultured chick pineal cells. II. Effects of forskolin, 8-bromocyclic AMP, and 8-bromocyclic GMP on the melatonin rhythm, 51
Zatz, M. and Mullen, D.A., Two mechanisms of photoendocrine transduction in cultured chick pineal cells: pertussis toxin blocks the acute but not the phase-shifting effects of light on the melatonin rhythm, 63
Zemlan, F.P. and Behbehani, M.M., Nucleus cuneiformis and pain modulation: anatomy and behavioral pharmacology, 89

BRAIN RESEARCH

VOL. 453 NOS. 1/2 CONTENTS 21 JUNE 1988

Research Reports

Nucleus basalis prosencephali, a substrate of apomorphine-induced pecking in pigeons (BRE 13657)
U. Lindenblatt and J.D. Delius (F.R.G.) 1

Polyamine metabolism in reversible cerebral ischemia: effect of α-difluoromethylornithine (BRE 13659)
W. Paschen, G. Röhn, C.O. Meese, B. Djuricic and R. Schmidt-Kastner (F.R.G., Yugoslavia) 9

Bilateral pericruciate cortical innervation of the red nucleus in cats with adult or neonatal cerebral hemispherectomy (BRE 13660)
J.R. Villablanca, F. Gómez-Pinilla, B.J. Sonnier and D.A. Hovda (U.S.A.) 17

Cholinergic brainstem sites for gain control of vestibulospinal reflexes in cats (BRE 13664)
C.D. Barnes, P. d'Ascanio, O. Pompeiano and G. Stampacchia (U.S.A., Italy) 32

Further chemical differentiation of Type I and Type II adrenocorticosteroid receptors in mouse brain cytosol: evidence for a new class of glucocorticoid receptors (BRE 13662)
W.G. Luttge and S.M. Emadian (U.S.A.) 41

Photoendocrine transduction in cultured chick pineal cells. II. Effects of forskolin, 8-bromocyclic AMP, and 8-bromocyclic GMP on the melatonin rhythm (BRE 13663)
M. Zatz and D.A. Mullen (U.S.A.) 51

Two mechanisms of photoendocrine transduction in cultured chick pineal cells: pertussis toxin blocks the acute but not the phase-shifting effects of light on the melatonin rhythm (BRE 13687)
M. Zatz and D.A. Mullen (U.S.A.) 63

Distribution of substance P-immunoreactive structures in the developing cat carotid body (BRE 13665)
T. Scheibner, D.J.C. Read and C.E. Sullivan (Australia) 72

Identifying motor and sensory myelinated axons in rabbit peripheral nerves by histochemical staining for carbonic anhydrase and cholinesterase activities (BRE 13666)
D.A. Riley, J.R. Sanger, H.S. Matloub, N.J. Yousif, J.L.W. Bain and G.H. Moore (U.S.A.) 79

Nucleus cuneiformis and pain modulation: anatomy and behavioral pharmacology (BRE 13667)
F.P. Zemlan and M.M. Behbehani (U.S.A.) 89

Neuronal and paracrine regulation of adrenal steroidogenesis: interactions between acetylcholine, serotonin and vasoactive intestinal peptide (VIP) on corticosteroid production by frog interrenal tissue (BRE 13668)
F. Leboulenger, M. Benyamina, C. Delarue, P. Netchitaïlo, S. Saint-Pierre and H. Vaudry (France, Canada) 103

Co-localization of substance P and Met-enkephalin-Arg^6-Gly^7-Leu^8 in the intraspinal neurons of the rat, with special reference to the neurons in the substantia gelatinosa (BRE 13669)
E. Senba, C. Yanaihara, N. Yanaihara and M. Tohyama (Japan) 110

Immunohistochemical evidence for a possible somatostatin-containing amygdalostriatal pathway in normal and Alzheimer's disease brain (BRE 13670)
E.J. Mufson, R. Benoit and M.M. Mesulam (U.S.A., Canada) 117

Spinocerebellar neurones in the guinea pig — a morphological study (BRE 13671)
D.J. Tracey, B. Walmsley and I.D. Forsythe (Australia) 129

Effects of acute and long-term treatment with methamphetamine on substance P concentration and receptor numbers in the rat brain (BRE 13672)
H. Ujike, N. Ogawa and S. Otsuki (Japan) 136

Comparative effects of stimulation of the trigeminal ganglion and the superior sagittal sinus on cerebral blood flow and evoked potentials in the cat (BRE 13673)
G.A. Lambert, P.J. Goadsby, A.S. Zagami and J.W. Duckworth (Australia) 143

Responses of quadriceps motor units to mechanical stimulation of knee joint receptors in the decerebrate cat (BRE 13675)
R.H. Baxendale, W.R. Ferrell and L. Wood (U.K.) 150

Effects of diet and obesity on brain α_1- and α_2-noradrenergic receptors in the rat (BRE 13674)
C.A. Wilmot, A.C. Sullivan and B.E. Levin (U.S.A.) 157

Cardiovascular responses elicited by electrical and chemical stimulation of the rostral medullary raphe of the rabbit (BRE 13676)
J.R. Haselton, R.W. Winters, D.R. Liskowsky, C.L. Haselton, P.M. McCabe and N. Schneiderman (U.S.A.) 167

(contents continued on pp. 411/412)

Cited in Biological Abstracts (BIOSIS) — Chem. Abstracts — Index Medicus — Current Contents (Life Sci.) — Excerpta Medica (EMBASE) — Psychological Abstracts (PsycINFO) — PASCAL M

(contents continued from backcover)

Anatomical and functional connections of neurons of the rostral medullary raphe of the rabbit (BRE 13677)
J.R. Haselton, R.W. Winters, D.R. Liskowsky, C.L. Haselton, P.M. McCabe and N. Schneiderman (U.S.A.) 176
Iontophoretic application of glucocorticoids inhibits identified neurones in the rat paraventricular nucleus (BRE 13681)
D. Saphier and S. Feldman (Israel) 183
Effects of colchicine on the intraneuronal transport of secretory material prior to the axon: a morphofunctional study in hypothalamic neurosecretory neurons of the rat (BRE 13680)
G. Alonso (France) 191
Local cerebral glucose consumption during ethanol withdrawal in the rat: effects of single and multiple episodes and previous convulsive seizures (BRE 13689)
L. Clemmesen, M. Ingvar, R. Hemmingsen and T.G. Bolwig (Denmark, Sweden) 204
Evidence for modulation of GABAergic neurotransmission by nicotine (BRE 13678)
R.K. Freund, D.A. Jungschaffer, A.C. Collins and J.M. Wehner (U.S.A.) 215
Influence of non-neuronal cells on regeneration of the rat sciatic nerve (BRE 13679)
J. Sjöberg, M. Kanje and A. Edström (Sweden) 221
Administration of MPTP acutely increases glucose utilization in the substantia nigra of primates (BRE 13696)
E. Palombo, L.J. Porrino, K.S. Bankiewicz, A.M. Crane, I.J. Kopin and L. Sokoloff (U.S.A.) 227
Combined cholinergic and serotonergic denervation of the forebrain produces severe deficits in a spatial learning task in the rat (BRE 13682)
O.G. Nilsson, R.E. Strecker, A. Daszuta and A. Björklund (Sweden, France) 235
The calcium channel antagonist, ω-conotoxin, and electric organ nerve terminals: binding and inhibition of transmitter release and calcium influx (BRE 13683)
S.N. Ahmad and G.P. Miljanich (U.S.A.) 247
Abnormal hyperexcitability of hippocampal slices from kindled rats is transient (BRE 13684)
A.C. Bragdon, D.M. Taylor, J.O. McNamara and W.A. Wilson (U.S.A.) 257
Effects of GABA on CA3 pyramidal cell dendrites in rabbit hippocampal slices (BRE 13686)
D. Janigro and P.A. Schwartzkroin (U.S.A.) 265
Acetylcholinesterase-containing fibers and choline acetyltransferase activity in isolated cerebral microvessels from goats (BRE 13688)
C. Estrada, D. Triguero, J. Munoz and A. Sureda (Spain) 275
Comparison of a carboxypeptidase E-like enzyme in human, bovine, mouse, *Xenopus*, shark and *Aplysia* neural tissue (BRE 13690)
L.D. Fricker and E. Herbert (U.S.A.) 281
Dynamic cerebral and systemic circulatory effects of adenosine, theophylline and dipyridamole (BRE 13691)
S. Puiroud, E. Pinard and J. Seylaz (France) 287
Spatial coding of olfactory information in the antennal lobe of *drosophila melanogaster* (BRE 13692)
V. Rodrigues (F.R.G.) 299
Synaptic interface surface area increases with long-term potentiation in the hippocampal dentate gyrus (BRE 13694)
N.L. Desmond and W.B. Levy (U.S.A.) 308
Correspondence between 5-HT_2 receptors and serotonergic axons in rat neocortex (BRE 13693)
M.E. Blue, K.A. Yagaloff, L.A. Mamounas, P.R. Hartig and M.E. Molliver (U.S.A.) 315
Suppression of sleep by prostaglandin synthesis inhibitors in unrestrained rats (BRE 13695)
K. Naito, H. Osama, R. Ueno, O. Hayaishi, K. Honda and S. Inoué (Japan) 329
Unmyelinated and myelinated axon membrane from rat corpus callosum: differences in macromolecular structure (BRE 13685)
S.G. Waxman and J.A. Black (U.S.A.) 337

Short Communications

Effects of chronic flurazepam treatment on firing rate of rat substantia nigra pars reticulata neurons (BRE 22950)
J.L. Tyma, H.C. Rosenberg, E.I. Tietz and T.H. Chiu (U.S.A.) 344
Functional zones in the auditory cortex of the echolocating bat, *Myotis lucifugus* (BRE 22951)
D. Wong and S.L. Shannon (U.S.A.) 349
Neurons of the subthalamic nucleus in primates display glutamate but not GABA immunoreactivity (BRE 22952)
Y. Smith and A. Parent (Canada) 353

(continued overleaf)

A hypoxic injury potential in the hippocampal slice (BRE 22953)
M.D. Fairchild, J.E. Parsons, C.G. Wasterlain, P.C. Rinaldi and R.A. Wallis (U.S.A.) 357
Calcitonin gene-related peptide- and substance P-immunoreactive nerve fibers in Meissner's corpuscles of rats: an immunohistochemical analysis (BRE 22954)
A. Ishida-Yamamoto, E. Senba and M. Tohyama (Japan) 362
Glucocorticoid toxicity in the hippocampus: in vitro demonstration (BRE 22955)
R.M. Sapolsky, D.R. Packan and W.W. Vale (U.S.A.) 367
Evidence for the existence of three classes of neurokinin receptors in brain. Differential ontogeny of neurokinin-1, neurokinin-2 and neurokinin-3 binding sites in rat cerebral cortex (BRE 22956)
T.-V. Dam, E. Escher and R. Quirion (Canada) 372
Melatonin enhances horizontal cell sensitivity in salamander retina (BRE 22957)
A.F. Wiechmann, X.-L. Yang, S.M. Wu and J.G. Hollyfield (U.S.A.) 377
Differential sensitization to amphetamine and stress responsivity as a function of inherent laterality (BRE 22960)
G.J. LaHoste, P. Mormède, J.-M. Rivet and M. Le Moal (France) 381
Central muscarinic cholinergic antagonists block wet-dog shakes produced by the TRH analog MK-771 in the rat (BRE 22961)
M.S. Sills, A.M. Mellow, T. Sunderland and D.M. Jacobowitz (U.S.A.) 385
Effects of estradiol and dexamethasone on choline acetyltransferase activity in various rat brain regions (BRE 22962)
H. Kaufman, C. Vadasz and A. Lajtha (U.S.A.) 389
Blockade of in vivo binding of ^{125}I-labeled 3-iodobenzamide (IBZM) to dopamine receptors by D_2 antagonist and agonist (BRE 22965)
W. Singhaniyom, Y.F. Tsai, T. Brücke, C. McLellan, R. Cohen, H.F. Kung and C.C. Chiueh (U.S.A.) 393
Dendrotoxin and 4-aminopyridine potentiate neurohypophysial hormone secretion during low frequency electrical stimulation (BRE 22966)
C.A. Bondy and J.T. Russell (U.S.A.) 397
Fibre composition of the feline trochlear and abducens nerves (BRE 22958)
C. Hildebrand, A. Oscarsson and M. Risling (Sweden) 401

Author Index 408